PHOENIX USA INC

Quality Manufacturer of Mini-Motorhomes

Leslie Blake, Remedial Project Manager
U.S. Environmental Protection Agency – Region 5
Superfund Division (SR-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

All questions are answered by Kermit Fisher, President/Owner of KF Investments and President/Owner of Phoenix USA lease of the site.

1. 2601 Marina Drive, formerly 53217 Marina Drive prior to annexation. I had no knowledge of any hazardous substances disposed of on the site. Prior to acquiring the property, a Phase I Environmental Site Assessment was obtained. (See attachments) KF Investments has owned the site since October 2004 to present.
2. Motor Homes are manufactured at this site. All hazardous substances purchased are stored inside the building and consumed in the manufacturing process.
3. Acetone – used as a cleaner. Mineral Spirits – used as a cleaner. Oil – for Air Compressor. Adhesive – used to bond carpet and upholstery Fabric. Contact Cement – used to bond fiberglass to wood substrate. Material Safety data sheets attached.
4. No chemical substances are produced in the manufacturing process at this site.
5. No rinse water is utilized in the manufacturing process at this site.
6. a. Don't understand the question.
   b. Acetone (liquid). Mineral Spirits (liquid). Citrus Cleaner (liquid). Adhesive (liquid). Contact Cement (liquid).
   c. Acetone - Russell Products. Mineral Spirits – Russell Products. Citrus Cleaner – Russell Products and Bender Wholesale Dist. Adhesive – Bender Wholesale Dist. Contact Cement – Russell Products and Bender Wholesale Dist.
   d. All substances are used and consumed in the manufacturing process.
   e. All substances are used ongoing and daily.
   f. On the production line inside the plant. All substances are stored inside.
   g. Acetone is purchased in 5 gallon containers/Quantity 5-10 gallons. Mineral Spirits purchased in 5 gallon containers/Quantity 5-10 gallons. Citrus Cleaner purchased in both 5 gallon containers and 14 oz spray cans/Quantity 4-10 gallons and 24 spray cans. Adhesive purchased in 5 gallon containers/Quantity 5-10 gallons. Contact Cement purchased in 5 gallon containers and 16oz spray cans/Quantity 5-10 gallons and 24 spray cans.
7. Elkhart County Health Department. Indiana Department of Environmental Management.
8. Copies of all inspections enclosed.
9. May 7, 2009, Elkhart Health Department cited for discharging compressor condensation out on the ground.
10. No.
11. No.
12. The EPA collected samples and has that information.

2601 Marina Drive • Elkhart Indiana 46514 • (574) 266-2020 • Fax (574) 266-8404
www.phoenixusarv.com

13. Not aware of any.
14. No leaks, spills or releases occurred.
15. No.
16. No.
17. Indiana Department of Environmental Management and Elkhart County Health Department inspection reports enclosed.

If you need any further information or clarification of any responses given, please contact me.

Kermit Fisher

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

VIA CERTIFIED MAIL 7002 0510 0004 0411 0359 July 14, 2005

NEW →
Mr. Kermit Fisher
Phoenix USA Inc.
53217 Marina Drive
Elkhart, Indiana 46514

Re: Inspection Summary Letter
Formerly Jackson RE Co. Inc.
EPA ID No. IND 065 854 887
Elkhart, Elkhart County)

Dear Mr. Fisher:

On May 27, 2005, a representative of the Indiana Department of Environmental Management, Office of Land Quality, conducted an inspection of Phoenix USA Inc., located at 53217 Marina Drive, Elkhart, Indiana. This inspection was conducted pursuant to IC 13-14-2-2. For your information, and in accordance with IC 13-14-5, a summary of the inspection is provided below:

Type of Inspection:
- X Compliance Evaluation Inspection
- ___ Multi-media Inspection
- ___ Complaint
- ___ Other

Results of Inspection:
- X No violations were observed
- ___ Violations were observed but corrected during the inspection.
- ___ Violations were observed.
- ___ Additional information/review is required to evaluate overall compliance.
- ___ Violations were observed and will be referred to the Office of Enforcement.
- ___ Other

Please direct any questions to Lisa Frost at 317/308-3392.

Sincerely,

Lisa Frost

Lisa Frost
Environmental Manager II
Industrial Waste Compliance Section
Compliance and Response Branch
Office of Land Quality

cc: Northern Regional Office

ELKHART COUNTY HEALTH DEPARTMENT

Environmental Health Services

4230 Elkhart Road
U.S. 33 & C.R. 26
Goshen, Indiana 46526
(574) 875-3391
Fax: (574) 875-3376

Aixsa Perez, M.D.
Health Officer

July 22, 2005

COPY

Phoenix USA, Inc.
53217 Marina Drive
Elkhart, IN 46514

RE: Facility Registration and Inspection

Attention Plant Manager:

It has come to the attention of the Elkhart County Health Department that your facility, Phoenix USA, Inc., is currently not registered under the Elkhart County Groundwater Protection Ordinance. Facilities, which posses an onsite wastewater system or store toxic or hazardous materials must be registered. The Elkhart County Health Department therefore, is requesting that an appointment be scheduled for the registration and facility inspection within 15 days upon receipt of this notice, or no later than August 12, 2005. *Failure to do so may be cause for referral to the County Attorney's Office for* enforcement action. A copy of the Elkhart County Groundwater Protection Ordinance is available upon request.

Any questions or comments, please contact me or Jennifer Tobey, Monday thru Friday between 8:00 a.m. and 10:00 a.m. at (574) 875-3391.

Sincerely,

Carrie R. Brunson

Carrie R. Brunson
Environmentalist

Enclosure (pamphlet)

CRB/rlv

gwregletter

9-29-05

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
REGISTRATION AND INSPECTION FORM

Facility Name Phoenix USA, Inc		Facility I.D. Number 4589	Date 9-21-05
Address 58217 Marina Dr.		Contact Name Kermit Fisher	
City Elk	Zip 46514	Township 02	Phone Number 206-2020	NAICS 336213

Purpose: (check all that apply)

Routine	☐	Registration	☑
Reinspection	☐	Spill	☐
Complaint	☐	Other	☐

Additional Information: (check all that apply)

Hazardous Waste Inspected: SQG ☐ LQG ☐ TSD ☐ Unknown ☐

SARA Title III:	Emergency Planning (EHS)	☐
	Toxic Chemical Release Reporting	☐
	Community Right-To-Know Requirements	☐
	Unknown	☐

Registration Exemption: (check all that apply)

No on-site wastewater disposal system	☐	Resale of unopened products	☐
Store < 100 kg/mo. of hazardous/toxic substances	☐	Laboratory	☐

The items marked below identify violations of the Elkhart County Ground Water Protection Ordinance 03-668. All violations should be corrected as soon as possible, but no later than the compliance time indicated under each violation. Failure to comply may result in the assessment of fines. Prior to the indicated compliance time written requests for the extension of compliance times or appeals regarding this inspection may be directed to the Elkhart County Health Department, 4230 Elkhart Road, Goshen, IN, 46526, Phone (574) 875-3391, Fax (574) 875-3376.

Registration

(11) Registered on-site wastewater disposal systems (5.A.) **(Immediate compliance)**

System 1: Type Septic Flow _____
Location NW corner of bldg.
System 2: Type _____ Flow _____
Location _____
System 3: Type _____ Flow _____
Location _____
System 4: Type _____ Flow _____
Location _____
System 5: Type _____ Flow _____
Location _____

(12) Registered hazardous/toxic materials storage area (5.B.) **(Immediate compliance)**

13 Notified ECHD of changes to on-site wastewater disposal system or hazardous/toxic substances storage area (RR 2.C., RR 2.D.) **(Immediate compliance)**

On-site Wastewater Disposal System

(14) Furnished a wastewater characterization for each on-site wastewater disposal system (6.) **(30 days to comply)**

Inspections

15 Upon notice of a violation, correct the violation as requested (12.B.) **(Immediate compliance)**

16 Provided requested information to determine compliance with ordinance (13.C.) **(Immediate compliance)**

Indoor Storage of Hazardous/Toxic Substances

17 Toxic/hazardous substances located in a manner to prevent a spill onto the ground (RR 4.B.) **(7 days to comply)**

18 Toxic/hazardous substances located in a manner to prevent a spill into a drain that is connected to an on-site wastewater disposal system (RR 4.B.) **(7 days to comply)**

Outside Storage of Hazardous/Toxic Substances

19 Storage on an impervious underlying base (RR 4.A.) **(7 days to comply)**

20 Storage in a containment system with adequate capacity (RR 4.A.) **(14 days to comply)**

21 Proper maintenance of containment system to protect integrity and capacity (RR 4.A.) **(14 days to comply)**

22 Proper removal or disposal of spilled material and accumulated precipitation (RR 4.A.) **(7 days to comply)**

23 Storage in product-tight containers (RR 4.C.) **(7 days to comply)**

24 Controlled drainage of precipitation in the containment system (RR 4.D.) **(7 days to comply)**

(25) Storage in secondary containment (RR 4.A.) **(14 days to comply)**

Temporary Storage Areas

26 Storage on an impervious underlying base (RR 4.H.) **(7 days to comply)**

27 Storage does not exceed two (2) business days (RR 4.H.) **(2 days to comply)**

28 Spill response plan (RR 4.H.) **(7 days to comply)**

Spills

29 Spill of a toxic or hazardous substance (4.) **(Immediate compliance)**

30 Discharge of process wastewater into or above an aquifer (4.) **(Immediate compliance)**

31 Reportable spill due to quantity requirements (10.A. and 10.C.) **(Immediate compliance)**

32 Reportable spill damaging waters of the state (10.A. and 10.C.) **(Immediate compliance)**

33 Reportable spill due to no spill response (10.A.) **(Immediate compliance)**

34 Undertake spill response activities (10.C.)**(7 days to comply)**

#11, 12, 14, + 25- see narrative

Follow-up Action: Reinspection on or about 10/05/05

Routine (Priority Category) (1) 2 3 0

Received by: _____

Inspected by: Carrie Burgoon

*Compliance with the Elkhart County Ground Water Protection Ordinance does not exempt this facility from any other federal, state or local laws, codes or regulations.

7/05 White – ECHD 1 Yellow – Facility Pink – ECHD 2

9-29-05

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
TOXIC OR HAZARDOUS SUBSTANCE STORAGE AREAS
REGISTRATION INFORMATION

FACILITY NAME Phoenix USA, Inc FACILITY ID NUMBER 4589

Hazardous Substance	Type of Container: D	B	C	A	T	U	O	Maximum Amount Stored In Any Month			Storage Location: Inside	Outside	Date: Added	Deleted
acetone		1						5	gals (circled)	lbs	✓		9-21-05	
CM-911		2						10	gals (circled)	lbs	✓		"	
mineral spirits		3						15	gals (circled)	lbs	✓		"	
wood adhesive		2						10	gals (circled)	lbs	✓		"	
									gals	lbs				
(✓) Antifreeze	1							55	gals (circled)	lbs		✓	"	
									gals	lbs				
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Container type: D – drum, B – bucket, C – can, A – above ground storage tank, T – tote, U – underground storage tank, O – other

1/00

White – ECHD Yellow - Facility

11-2-05

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
REGISTRATION AND INSPECTION FORM

Facility Name Phoenix USA, Inc			Facility I.D. Number 4589		Date 10-25-05
Address 53217 Marina Dr.			Contact Name Kermit Fisher		
City Elkhart	Zip 46514	Township 02	Phone Number 266-2020		NAICS 336213

Purpose: (check all that apply)

Routine	☐	Registration	☐
Reinspection	☑	Spill	☐
Complaint	☐	Other	☐

Additional Information: (check all that apply)

Hazardous Waste Inspected: SQG ☐ LQG ☐ TSD ☐ Unknown ☐

SARA Title III:
- Emergency Planning (EHS) ☐
- Toxic Chemical Release Reporting ☐
- Community Right-To-Know Requirements ☐
- Unknown ☐

Registration Exemption: (check all that apply)

- No on-site wastewater disposal system ☐
- Store < 100 kg/mo. of hazardous/toxic substances ☐
- Resale of unopened products ☐
- Laboratory ☐

The items marked below identify violations of the Elkhart County Ground Water Protection Ordinance 03-668. All violations should be corrected as soon as possible, but no later than the compliance time indicated under each violation. Failure to comply may result in the assessment of fines. Prior to the indicated compliance time written requests for the extension of compliance times or appeals regarding this inspection may be directed to the Elkhart County Health Department, 4230 Elkhart Road, Goshen, IN, 46526, Phone (574) 875-3391, Fax (574) 875-3376.

Registration

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System 1: Type Septic Flow _____
Location NW corner of bag

System 2: Type _____ Flow _____
Location _____

System 3: Type _____ Flow _____
Location _____

System 4: Type _____ Flow _____
Location _____

System 5: Type _____ Flow _____
Location _____

12 Registered hazardous/toxic materials storage area (5.B.) **(Immediate compliance)**

13 Notified ECHD of changes to on-site wastewater disposal system or hazardous/toxic substances storage area (RR 2.C., RR 2.D.) **(Immediate compliance)**

On-site Wastewater Disposal System

14 Furnished a wastewater characterization for each on-site wastewater disposal system (6.) **(30 days to comply)**

Inspections

15 Upon notice of a violation, correct the violation as requested (12.B.) **(Immediate compliance)**

16 Provided requested information to determine compliance with ordinance (13.C.) **(Immediate compliance)**

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34 Undertake spill response activities (10.C.) **(7 days to comply)**

#14 < 25 - corrected! Thanks!
Received WWC 10-19-05

Follow-up Action: Reinspection on or about ____/____/____

Routine (Priority Category) (1) 2 3 0

Received by: [signature]

Inspected by: Carrie Burson

*Compliance with the Elkhart County Ground Water Protection Ordinance does not exempt this facility from any other federal, state or local laws, codes or regulations.

7/05

White – ECHD 1 Yellow – Facility Pink – ECHD 2

Stark EnviroLabs, Inc.

1718 6th Street S.W. • Canton, OH 44706
TEL: (330) 453-2950 • FAX: (330) 453-2952

- REPORT OF ANALYSIS -

MIDDLEBURY SEPTIC, INC.
16403 COUNTY ROAD 108
BRISTOL, IN 46507

Client ID: 5097

Lab ID: 0510140215
Your Sample ID: GRAB NORTH OF BUILDING
Sample Type: WATER
Project Name: 53217 MARINA DR PLEASONIX
Project #:
P. O. #: MIDDLEBURY

Date Sampled: 10/11/2005
Time Sampled: 15:00
Date Received: 10/14/05
Time Received: 10:00
Date Reported: 10/17/2005
Time Reported: 15:17

Test Group	Test	Result	Units	Detection Limit	Analysis Date
VOCL8260T	SV7343_6250		Calibration Date: 9/28/05		
	Acetone	65.3	ug/L	50	10/14/2005
	Benzene	<5	ug/L	5	10/14/2005
	Bromodichloromethane	<5	ug/L	5	10/14/2005
	Bromoform	<5	ug/L	5	10/14/2005
	Bromomethane	<10	ug/L	10	10/14/2005
	2-Butanone	<10	ug/L	10	10/14/2005
	Carbon disulfide	<10	ug/L	10	10/14/2005
	Carbon tetrachloride	<10	ug/L	10	10/14/2005
	Chlorobenzene	44.7	ug/L	5	10/14/2005
	Chloroethane	<5	ug/L	5	10/14/2005
	2-Chloroethylvinyl ether	<5	ug/L	5	10/14/2005
	Chloroform	<5	ug/L	5	10/14/2005
	Chloromethane	<5	ug/L	5	10/14/2005
	Dibromomethane	<5	ug/L	5	10/14/2005
	1,1-Dichloroethane	<5	ug/L	5	10/14/2005
	1,2-Dichloroethane	<5	ug/L	5	10/14/2005

0510140215 GRAB NORTH

Results for Lab ID: 0510140215 Continued:

Test Group	Test	Result	Units	Detection Limit	Analysis Date
VOCL6260T					
	1,1-Dichloroethylene	<5	ug/L	5	10/14/2005
	1,2-Dichloroethylene (trans+cis	<5	ug/L	5	10/14/2005
	1,2-Dichloropropane	<5	ug/L	5	10/14/2005
	cis-1,3-Dichloropropene	<5	ug/L	5	10/14/2005
	trans-1,3-Dichloropropene	<5	ug/L	5	10/14/2005
	Ethyl benzene	<5	ug/L	5	10/14/2005
	2-Hexanone	<10	ug/L	10	10/14/2005
	Methylene chloride	<10	ug/L	10	10/14/2005
	4-Methyl-2-pentanone	<10	ug/L	10	10/14/2005
	Styrene	<5	ug/L	5	10/14/2005
	1,1,2,2-Tetrachloroethane	<10	ug/L	10	10/14/2005
	Tetrachloroethylene	<10	ug/L	10	10/14/2005
	Toluene	<5	ug/L	5	10/14/2005
	1,1,1-Trichloroethane	<5	ug/L	5	10/14/2005
	1,1,2-Trichloroethane	<5	ug/L	5	10/14/2005
	Trichloroethylene	<5	ug/L	5	10/14/2005
	Vinyl acetate	<10	ug/L	10	10/14/2005
	Vinyl chloride	<10	ug/L	10	10/14/2005
	Xylene (Total)	<15	ug/L	15	10/14/2005

Comments:

Organic solids are dry weight corrected when applicable.

Analyst QA/QC Manager

0510140215 GRAB NORTH

8.

5-18-09

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
REGISTRATION AND INSPECTION FORM

Facility Name Phoenix USA Inc			Facility I.D. Number 4589		Date 5/7/09
Address 7601 Marina Dr			Contact Name Kermit Fisher		
City Elkhart	Zip 46514	Township 02	Phone Number 266-2020		NAICS 336213

Purpose: (check all that apply)

Routine	X	Registration	☐
Reinspection	☐	Spill	☐
Complaint	☐	Other	☐

Additional Information: (check all that apply)

Hazardous Waste Inspected: SQG ☐ LQG ☐ TSD ☐ Unknown ☐

SARA Title III:
- Emergency Planning (EHS) ☐
- Toxic Chemical Release Reporting ☐
- Community Right-To-Know Requirements ☐
- Unknown ☐

Registration Exemption: (check all that apply)

- No on-site wastewater disposal system ☐
- Store < 100 kg/mo. of hazardous/toxic substances ☐
- Resale of unopened products ☐
- Laboratory ☐

The items marked below identify violations of the Elkhart County Ground Water Protection Ordinance 03-668. All violations should be corrected as soon as possible, but no later than the compliance time indicated under each violation. Failure to comply may result in the assessment of fines. Prior to the indicated compliance time written requests for the extension of compliance times or appeals regarding this inspection may be directed to the Elkhart County Health Department, 4230 Elkhart Road, Goshen, IN, 46526, Phone (574) 875-3391, Fax (574) 875-3376.

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Location _____
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Location _____
System 4: Type _____ Flow _____
Location _____
System 5: Type _____ Flow _____
Location _____

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33 Reportable spill due to no spill response (10.A.) **(Immediate compliance)**

34 Undertake spill response activities (10.C.)**(7 days to comply)**

Follow-up Action: Reinspection on or about 5/21/09

Routine (Priority Category) (1) 2 3 0

Received by: _____

Inspected by: Matthew Bottoms

*Compliance with the Elkhart County Ground Water Protection Ordinance does not exempt this facility from any other federal, state or local laws, codes or regulations.

7/05

White – ECHD 1 Yellow – Facility Pink – ECHD 2

5-18-09

GROUND WATER PROTECTION PROGRAM
INSPECTION NARRATIVE REPORT

Facility Name	Facility ID	Date
Phoenix USA Inc	4589	5/7/09

Item No.	Remarks
17	Noted air compressor blow off directed outside into loading dock. Redirect inside building to collect condensation and any oil in drain line.

Received by

Inspected by Matthew L Bottoms

5-1809

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
TOXIC OR HAZARDOUS SUBSTANCE STORAGE AREAS
REGISTRATION INFORMATION

FACILITY NAME Phoenix USA Inc FACILITY ID NUMBER 21589

Hazardous Substance	Type of Container							Maximum Amount Stored In Any Month			Storage Location		Date	
	D	B	C	A	T	U	O				Inside	Outside	Added	Deleted
CM 911 Citrusclean		1						5	gals	lbs	X		5/7/09	
X 548 Dichloromethane, Toluene			1					1	gals	lbs	X			
Mineral Spirits		1						5	gals	lbs	X			
Acetone		2						10	gals	lbs	X			
Adhesive		4						20	gals	lbs	X			
Foamrail One Part 20					1			2250	gals	lbs	X		↓	
									gals	lbs				
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Container type: D – drum, B – bucket, C – can, A – above ground storage tank, T – tote, U – underground storage tank, O – other

White – ECHD Yellow - Facility

8-4-09

ELKHART COUNTY GROUND WATER PROTECTION PROGRAM
REGISTRATION AND INSPECTION FORM

Facility Name Phoenix USA Inc			Facility I.D. Number 4589	Date 7/30/09
Address 21001 Morris Dr			Contact Name Permit Fisher	
City Elkhart	Zip 46514	Township 02	Phone Number 266-2020	NAICS 336213

Purpose: (check all that apply)

Routine	☐	Registration	☐
Reinspection	☒	Spill	☐
Complaint	☐	Other	☐

Additional Information: (check all that apply)

Hazardous Waste Inspected: SQG ☐ LQG ☐ TSD ☐ Unknown ☐

SARA Title III:
- Emergency Planning (EHS) ☐
- Toxic Chemical Release Reporting ☐
- Community Right-To-Know Requirements ☐
- Unknown ☐

Registration Exemption: (check all that apply)

- No on-site wastewater disposal system ☐
- Store < 100 kg/mo. of hazardous/toxic substances ☐
- Resale of unopened products ☐
- Laboratory ☐

The items marked below identify violations of the Elkhart County Ground Water Protection Ordinance 03-668. All violations should be corrected as soon as possible, but no later than the compliance time indicated under each violation. Failure to comply may result in the assessment of fines. Prior to the indicated compliance time written requests for the extension of compliance times or appeals regarding this inspection may be directed to the Elkhart County Health Department, 4230 Elkhart Road, Goshen, IN, 46526, Phone (574) 875-3391, Fax (574) 875-3376.

Registration

11 Registered on-site wastewater disposal systems (5.A.) **(Immediate compliance)**

System 1: Type Septic Flow _____
Location NW corner of Bldg
System 2: Type _____ Flow _____
Location _____
System 3: Type _____ Flow _____
Location _____
System 4: Type _____ Flow _____
Location _____
System 5: Type _____ Flow _____
Location _____

12 Registered hazardous/toxic materials storage area (5.B.) **(Immediate compliance)**

13 Notified ECHD of changes to on-site wastewater disposal system or hazardous/toxic substances storage area (RR 2.C., RR 2.D.) **(Immediate compliance)**

On-site Wastewater Disposal System

14 Furnished a wastewater characterization for each on-site wastewater disposal system (6.) **(30 days to comply)**

Inspections

15 Upon notice of a violation, correct the violation as requested (12.B.) **(Immediate compliance)**

16 Provided requested information to determine compliance with ordinance (13.C.) **(Immediate compliance)**

Indoor Storage of Hazardous/Toxic Substances

17 Toxic/hazardous substances located in a manner to prevent a spill onto the ground (RR 4.B.) **(7 days to comply)**

18 Toxic/hazardous substances located in a manner to prevent a spill into a drain that is connected to an on-site wastewater disposal system (RR 4.B.) **(7 days to comply)**

Outside Storage of Hazardous/Toxic Substances

19 Storage on an impervious underlying base (RR 4.A.) **(7 days to comply)**

20 Storage in a containment system with adequate capacity (RR 4.A.) **(14 days to comply)**

21 Proper maintenance of containment system to protect integrity and capacity (RR 4.A.) **(14 days to comply)**

22 Proper removal or disposal of spilled material and accumulated precipitation (RR 4.A.) **(7 days to comply)**

23 Storage in product-tight containers (RR 4.C.) **(7 days to comply)**

24 Controlled drainage of precipitation in the containment system (RR 4.D.) **(7 days to comply)**

25 Storage in secondary containment (RR 4.A.) **(14 days to comply)**

Temporary Storage Areas

26 Storage on an impervious underlying base (RR 4.H.) **(7 days to comply)**

27 Storage does not exceed two (2) business days (RR 4.H.) **(2 days to comply)**

28 Spill response plan (RR 4.H.) **(7 days to comply)**

Spills

29 Spill of a toxic or hazardous substance (4.) **(Immediate compliance)**

30 Discharge of process wastewater into or above an aquifer (4.) **(Immediate compliance)**

31 Reportable spill due to quantity requirements (10.A. and 10.C.) **(Immediate compliance)**

32 Reportable spill damaging waters of the state (10.A. and 10.C.) **(Immediate compliance)**

33 Reportable spill due to no spill response (10.A.) **(Immediate compliance)**

34 Undertake spill response activities (10.C.)**(7 days to comply)**

Violation #17 has been corrected Thank You

Follow-up Action: Reinspection on or about ____/____/____

Routine (Priority Category) 1 (2) 3 0

Received by: [signature]

Inspected by: M Matthews Bottoms Envir

*Compliance with the Elkhart County Ground Water Protection Ordinance does not exempt this facility from any other federal, state or local laws, codes or regulations.

7/05 White – ECHD 1 Yellow – Facility Pink – ECHD 2

7.0 CERTIFICATION

1. Wightman Petrie Environmental, Inc. certifies to KF Investments, LLC that this Phase I Environmental Site Assessment for the subject property located at 53217 Marina Drive in Elkhart, Indiana, along with the activities performed in connection with its preparation meet or exceed the requirement of the ASTM document E 1527-00 ("the standard") for a Phase I Environmental Site Assessment.

2. Wightman Petrie Environmental, Inc. certifies to KF Investments, LLC that this Phase I Environmental Site Assessment was prepared, and the activities performed in connection with its preparation were conducted, by and under the direct supervision and control of Don MacDonell, who qualifies as an "environmental professional" as defined in the standard.

3. Wightman Petrie Environmental, Inc. certifies to KF Investments, LLC that it has in effect at the time of the Phase I Environmental Site Assessment, and has maintained during the entire duration of the activities performed in connection with this Phase I Environmental Site Assessment, environmental consultants professional liability insurance coverage in an amount exceeding five hundred thousand dollars ($500,000.00), issued by an insurance company licensed to do business in Indiana, which insurance policy provides coverage for the acts and omissions of all persons involved in the performance and preparation of this Phase I Environmental Site Assessment and related activities. Wightman Petrie Environmental, Inc. covenants to KF Investments, LLC that it shall maintain such insurance, without reduction in or narrowing of the described coverage, for at least one year after the date of this Phase I Environmental Site Assessment.

Don MacDonell, Senior Project Manager

10-8-04
Date

6.0 CONCLUSIONS

Based on the information made available to Wightman Petrie Environmental, Inc. or obtained during our assessment of the subject property, there are no indications that current or past uses of the subject property or its surrounding properties have resulted in environmental contamination at the subject property. Based on the historical records review and site reconnaissance, Wightman Petrie Environmental, Inc. recommends no further investigation of the subject property.

Report Prepared By:

Kevin Whetham

Kevin Whetham, P.E.

10-8-04

Date

B.

Spray Cans

BENDER'S WHOLESALE DIST., INC.
2911 MOOSE TRAIL - P.O.BOX 1407
ELKHART, INDIANA 46515

M A T E R I A L S A F E T Y D A T A S H E E T

PHONE#: (574) 264-4409 24-HOUR D.O.T. PHONE#: (800) 424-9300
TRADE NAME: BENDER'S 30 CITRUS BASED BIODEGRADABLE CLEANER, SPRAY
BENDER I.D. NUMBERS: HR0E030 HR0J030

DOCUMENT NUMBER: D000030A DATE OF ISSUE: 03/25/11

1. HAZARDOUS INGREDIENTS

	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	CODES
d-Limonene	5989-27-5	< 65.00	N	2
			N	1
Isopropyl alcohol	(1) 67-63-0	< 65.0	400.000ppm	2
			400.000ppm	1
Liquified petroleum gas	68476-86-8	< 30.0	1,000.000ppm	2
			1,000.000ppm	1

(1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

BOILING POINT: 120 F. VISCOSITY: ND
VAPOR PRESSURE: Aerosol Cans 40 p.s.i. @ 70 F. pH: ND
VAPOR DENSITY (AIR=1): >1 (Air = 1) EVAPORATION RATE:> 1.0 (Water = 1.0)
APPEARANCE AND ODOR: Clear liquid, Citrus odor PERCENT VOLATILE: 100.0
SOLUBILITY IN WATER: < 60% (Water) SPECIFIC GRAVITY: 0.85

HMIS CODES: Health: 2 Flammability: 4 Equipment: B Reactivity: 0

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: -156 F. (TCC)

FLAMMABLE LIMITS: LEL: .70 UEL: 9.20

D.O.T. CATEGORY: -AEROSOLV Consumer Commodity ORM-D
Solvents, cleaners, degreasers - aerosolized
X

EXTINGUISHING MEDIA:
Water, carbon dioxide, dry chemical or foam.

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See section four, Conditions To Avoid and Hazardous Decomposition Products.

3. FIRE AND EXPLOSION HAZARD DATA CONTINUED

Exposure to heat may cause bursing of aerosol can. Do not store above 120 degrees F. Overheated aerosol containers adjacent to fire could explode due to pressure buildup.

4. REACTIVITY DATA

STABILITY:
Stable.

INCOMPATABILITY (Materials to avoid):
Strong oxidizing agents.

HAZARDOUS POLYMERIZATION:
May not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide, nitrogen oxides and smoke particles.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Remove all sources of ignition immediately. Observe precautions in all sections. Collect spilled material with absorbent material. Clean up residue and place in metal container (D.O.T. approved if it is to be shipped).

RECOMMENDED DISPOSAL:
Dispose of in accordance with local, state and current US EPA regulations.

ENVIRONMENTAL DATA:
ND

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with plenty of water for at least 15 minutes. If symptoms or irritation occur, call a physician.

SKIN CONTACT:
Wash thouroughly with soap and water.

INHALATION:
Remove affected person to fresh air.

IF SWALLOWED:
If person is conscious, immediately administer large quantities of water.

6. SUGGESTED FIRST AID CONTINUED

DO NOT induce vomiting. GET IMMEDIATE MEDICAL ATTENTION.

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and flame. Use only in areas adequately ventilated to remove vapors and prevent vapor buildup. Avoid prolonged breathing of vapors. Avoid breathing of overspray (airborne paint, vinyl or oil particles) during spray application. Avoid contact with eyes and skin.
DO NOT place aerosol can in home compactor. Exposure to temperatures above 120 degrees F. can cause bursting of aerosol can.
PROTECTIVE EQUIPMENT: Wear safety goggles if mist might get into eyes. Impervious gloves (P.V.A.) are recommended to prevent skin contact. Use an operating spray booth if at all possible. If not, provide other local exhaust ventilation to prevent vapor buildup. If adequate ventilation can not be maintained, a self-contained breathing apparatus, appropriate for the needs of your application, should be used.

8. HEALTH HAZARD DATA

EYE CONTACT:
Liquid irritating to eyes. Can cause tearing, redness and blurred vision.

SKIN CONTACT:
Liquid may be irritating to the skin upon prolonged contact.

INHALATION:
Inhalation of vapor concentrations above the permissible limits may cause respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure include dizziness, light headedness, headache and nausea.

IF SWALLOWED:
Although no specific data exists regarding the results of ingestion of this product, it is highly advised that this product not be ingested as it is moderately toxic.

HEALTH DATA:
None Established

ADDITIONAL HEALTH DATA:

ABBREVIATIONS:

1 - ACGIH Threshhold Limit Values
2 - Federal OSHA Permissible Exposure Limit
3 - Chemical Manufacturer Recommended Guidlines
N - None Established
ACC - Acceptable Ceiling Concentration
ACM - Maximum Acceptable Ceiling Concentration
C - Centigrade
F - Fahrenheit
* - See "Health Data"
# - See "Additional Health Data"
S - Potential Critical Absorption by cutaneous route
Q - Potential Critical Entrance by Respiration

H - Hours
MAX. DUR. - Maximum Duration
Min. - Minutes
mg/m3 - Miligrams per square meter
NA - Not Applicable
ND - Not Determined
ppm - Parts Per Million
P.S.I. - Pounds per Square Inch
WA - Weighted Average per 8 hour shift
V.O.C. - Volatile Organic Compound
R - Values for Inhalation only
RCRA - Resource Conservation & Recovery Act

B

CITRUS DEGREASER
5 Gal pail

Fussell

SUPERIOR

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material name	**ST-0226**
Version #	01
Revision date	12-28-2010
Product code	0300985
Manufacturer information	Superior Oil Company, Inc. 1402 North Capitol Avenue, Suite #100 Indianapolis, IN 46202 US Information (317) 781-4400 Emergency (317) 781-4400

2. HAZARDS IDENTIFICATION

OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Causes eye irritation. Avoid contact with eyes.
Skin	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Avoid contact with the skin.
Inhalation	Irritating to respiratory system.
Ingestion	Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs	Central nervous system. Skin.
Chronic effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Prolonged skin contact may defat the skin and produce dermatitis.
Signs and symptoms	Narcosis. Decrease in motor functions. Behavioral changes. Defatting of the skin. Rash. Irritation.
Potential environmental effects	May cause long-term adverse effects in the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Isoparaffinic Hydrocarbon	64742-48-9	90 - 100
Orange Terpenes	5989-27-5	2.5 - 10

4. FIRST AID MEASURES

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.
Skin contact	Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if breathing becomes difficult.
Ingestion	Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	In case of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
Specific methods	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

Handling	Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.
Storage	The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep in a well-ventilated place. Keep container tightly closed. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection	Avoid contact with eyes. Wear chemical goggles.
Skin protection	Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

Respiratory protection	Do not breathe dust/fume/gas/mist/vapors/spray. Wear positive pressure self-contained breathing apparatus (SCBA) when engineering controls are insufficient to maintain exposure below recommended levels.
General hygiene considerations	When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear.
Color	Colorless.
Odor	Mild Citrus.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	339.8 °F (171 °C) approx.
Flash point	109.4 °F (43 °C) (Lowest flashing component)
Evaporation rate	< 1 (Butyl Acetate = 1)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	1.15 hPa (1 hPa = 0.75006 mmHg)
Vapor density	> 1 (Air = 1)
Specific gravity	0.763
Relative density	Not available.
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	99.7285 %
Percent volatile	99.7285 %

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Peroxides. Acids.
Hazardous decomposition products	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Components	Test Results
Orange Terpenes (5989-27-5)	Acute Dermal LD50 Rabbit: 5 g/kg
	Acute Oral LD50 Mouse: 5600 - 6600 mg/kg
	Acute Other LD50 Mouse: 1.3 g/kg
	Acute Other LD50 Rat: 0.11 g/kg

Sensitization	Not available.
Local effects	Components of the product may be absorbed into the body through the skin. Irritating to respiratory system. Irritating to eyes. Irritating to skin.
Chronic effects	Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Orange Terpenes (CAS 5989-27-5)	3 Not classifiable as to carcinogenicity to humans.
Skin corrosion/irritation	Not available.
Epidemiology	Hazardous by OSHA criteria.
Mutagenicity	Not available.
Neurological effects	Hazardous by OSHA criteria.
Reproductive effects	Not available.
Teratogenicity	Not available.
Further information	Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components	Test Results
Orange Terpenes (5989-27-5)	EC50 Water flea (Daphnia pulex): 69.6 mg/l 48.00 hours LC50 Fathead minnow (Pimephales promelas): 0.619 - 0.796 mg/l 96.00 hours

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORTATION INFORMATION

DOT - Bulk:

Basic shipping requirements:

UN number	NA1993
Proper shipping name	Combustible Liquid, n.o.s., (Petroleum Distillates, Terpene Hydrocarbons)
Hazard class	Combustible Liquid
Packing group	III
Additional information:	
ERG code	128

DOT - Non-Bulk:

Not regulated in a container less than 119 gallons.

15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No

Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 2 Instability: 0
Disclaimer	This information is based on data available to us and is accurate and reliable to the best of our knowledge at the time of printing. However, no warranty is expressed or implied regarding the accuracy or completeness of the information contained herein. Final determination of the suitability of this material for the use contemplated is the sole responsibility of the user. Buyer assumes all risk and liabilities. Buyer accepts and uses this material on these conditions.
Issue date	12-28-2010

B.

5 gal pail

Russell

Mineral Spirits 66/3

Material Safety Data Sheet

CITGO Petroleum Corporation
1701 Golf Road, Suite 1-1101
Rolling Meadows, IL 60008-4295

MSDS No. 19024
Revision Date 9/9/2008

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

Hazard Rankings

	HMIS	NFPA
Health Hazard	* 1	1
Fire Hazard	2	2
Reactivity	0	0

* = Chronic Health Hazard

Protective Equipment

Minimum Recommended
See Section 8 for Details

Emergency Overview

Physical State Liquid.
Color Transparent, colorless. **Odor** Characteristic hydrocarbon solvent odor.

CAUTION:
Combustible liquid and vapor.
Harmful or fatal if swallowed - Can enter lungs and cause damage.
Can cause eye, skin or respiratory tract irritation.
Harmful to aquatic organisms.

SECTION 1. PRODUCT IDENTIFICATION

Trade Name	Mineral Spirits 66/3	**Technical Contact**	(847) 734-7699 (8am - 4pm CT M-F)
Product Number	19024	**Medical Emergency**	(832) 486-4700
CAS Number	64742-47-8	**CHEMTREC Emergency (United States Only)**	(800) 424-9300
Product Family	Petroleum hydrocarbon solvent		
Synonyms	Type IC Mineral Spirits (meets ASTM D-235 Type 1C specifications); Petroleum hydrocarbon solvent; Mineral Spirits 66/3; CITGO® Material Code: 19024		

SECTION 2. COMPOSITION

This product may be composed, in whole or in part, of any of the following refinery streams:

Distillates (petroleum), hydrotreated light [CAS No.: 64742-47-8]

This product contains the following components:

Component Name(s)	CAS Registry No.	Concentration (%)
C10 Alkanes and Cycloalkanes	Mixture	20 - 60
C11 Alkanes and Cycloalkanes	Mixture	10 - 40
C9 Cycloalkanes	Mixture	5 - 20
Nonane, all isomers	Mixture	5 - 20
C12 Alkanes and Cycloalkanes	Mixture	5 - 10
C13 Alkanes and Cycloalkanes	Mixture	1 - 5

SECTION 3. HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Inhalation.

Signs and Symptoms of Acute Exposure

Inhalation	Breathing high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression with symptoms including nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Eye Contact	This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. Symptoms include stinging, watering, redness, and swelling.
Skin Contact	This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation (dermatitis).
Ingestion	If swallowed, this material may irritate the mucous membranes of the mouth, throat, and esophagus. It can be readily absorbed by the stomach and intestinal tract. Symptoms include a burning sensation of the mouth and esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and delirium, as well as additional central nervous system (CNS) effects. Due to its light viscosity, there is a danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death.
Chronic Health Effects Summary	Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome").
Conditions Aggravated by Exposure	Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Liver, Kidneys, Central Nervous System (CNS)
Target Organs	May cause damage to the following organs: kidneys, lungs, the nervous system, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea
Carcinogenic Potential	This product is not known to contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Health Hazard Classification				OSHA Physical Hazard Classification					
Irritant	X	Sensitizer		Combustible	X	Explosive		Pyrophoric	
Toxic		Highly Toxic		Flammable		Oxidizer		Water-reactive	
Corrosive		Carcinogenic		Compressed Gas		Organic Peroxide		Unstable	

SECTION 4. FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.

Eye Contact Flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. If easily accomplished, check for and remove contact lenses. If contact lenses cannot be removed, seek immediate medical attention. Do not use eye ointment. Seek medical attention.

Skin Contact Remove contaminated shoes and clothing. Flush affected area with large amounts of water. *If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use* ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.

Ingestion Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give *anything by mouth to a person who is not fully conscious. Do not leave victim unattended.* Seek medical attention immediately.

Notes to Physician INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification NFPA Class-II combustible liquid.

Flash Point Closed cup: 42°C (108°F). (Tagliabue.)

Lower Flammable Limit AP 0.6 % **Upper Flammable Limit** AP 6 %

Autoignition Temperature AP 230°C (AP 446°F)

Hazardous Combustion Products Carbon dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons.

Special Properties *Combustible Liquid! This material releases vapors when heated above ambient* temperatures. Vapors can cause a flash fire. Vapors can travel to a source of ignition and flashback. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. Use only with adequate ventilation. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media *SMALL FIRE: Use dry chemicals, carbon dioxide, foam, or inert gas (nitrogen).* Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.
LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.

Protection of Fire Fighters

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Combustible Liquid! Release causes an immediate fire or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor-suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop the leak if it can done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas. Prevent its entry into waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

For large spills, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; but, it may not prevent ignition in closed spaces. This material will float on water and its run-off may create an explosion or fire hazard. Verify that responders are properly HAZWOPER-trained and wearing appropriate respiratory equipment and fire-resistant protective clothing during cleanup operations. In an urban area, cleanup spill as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbant pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

SECTION 7. HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Avoid contact with oxidizing agents. Do NOT breathe vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do NOT take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Follow proper entry procedures, including compliance with 29 CFR 1910.146 prior to entering confined spaces such as tanks or pits. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Use appropriate respiratory protection when concentrations exceed any established occupational exposure level (See Section 8) Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Non-equilibrium conditions may increase the fire hazard associated with this product. A static electrical charge can accumulate when this material is flowing through pipes, nozzles or filters and when it is agitated. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards

associated with electrostatic charges. Carefully review operations that may increase the risks associated with static electricity such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards of an electrostatic discharge may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Dissipation of electrostatic charges may be improved with the use of conductivity additives when used with other mitigation efforts, including bonding and grounding. Always keep nozzle in contact with the container throughout the loading process.

Do NOT fill any portable container in or on a vehicle. Do NOT use compressed air for filling, discharging or other handling operations. Product container is NOT designed for elevated pressure. Do NOT pressurize, cut, weld, braze solder, drill, or grind on containers. Do NOT expose product containers to flames, sparks, heat or other potential ignition sources. Empty containers may contain material residues which can ignite with explosive force. Observe label precautions.

Storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store only in approved containers. Do not store with oxidizing agents. Do not store at elevated temperatures or in direct sunlight. Protect containers against physical damage. Head spaces in tanks and other containers may contain a mixture of air and vapor in the flammable range. Vapor may be ignited by static discharge. Storage area must meet OSHA requirements and applicable fire codes. Additional information regarding the design and control of hazards associated with the handling and storage of flammable and combustible liquids may be found in professional and industrial documents including, but not limited to, the National Fire Protection Association (NFPA) publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77 ("Recommended Practice on Static Electricity") and the American Petroleum Institute (API) Recommended Practice 2003, ("Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents").

Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electrical Code. An emergency eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

Eye Protection

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Hand Protection

Avoid skin contact. Use heavy duty gloves constructed of chemical resistant materials such as Viton® or heavy nitrile rubber. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.

Body Protection	Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.
Respiratory Protection	For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). For airborne vapor concentrations that exceed the recommended protection factors for organic vapor respirators, use a full-face, positive-pressure, supplied air respirator. Due to fire and explosion hazards, do not enter atmospheres containing concentrations greater than 10% of the lower flammable limit of this product.
General Comments	Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Occupational Exposure Guidelines

Substance	Applicable Workplace Exposure Levels
Petroleum Hydrocarbon Distillates	**ACGIH TLV (United States).** TWA: 100 ppm 8 hour(s). **OSHA PEL Z2 (United States).** TWA: 500 ppm 8 hour(s).
Nonane, all isomers	**ACGIH (United States).** TWA: 200 ppm 8 hour(s).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State	Liquid.	**Color**	Transparent, colorless.	**Odor**	Characteristic hydrocarbon solvent odor.
Specific Gravity	0.78 (Water = 1)	**pH**	Not applicable	**Vapor Density**	5 (Air = 1)
Boiling Range	159 to 197°C (318 to 386°F)			**Melting/Freezing Point**	Not available.
Vapor Pressure	<0.1 kPa (<1 mm Hg) (at 20°C)			**Volatility**	AP 778 g/l VOC (w/v)
Solubility in Water	Very slightly soluble in cold water. (<0.1 % w/w)			**Viscosity (cSt @ 40°C)**	Not available.
Flash Point	Closed cup: 42°C (108°F). (Tagliabue.)				
Additional Properties	Conductivity = <50 picosiemens/meter (unadditized)				

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable. **Hazardous Polymerization** Not expected to occur.
Conditions to Avoid	Keep away from heat, flame and other potential ignition sources. Keep away from strong oxidizing conditions and agents.
Materials Incompatibility	Strong acids, alkalies, and oxidizers such as liquid chlorine and oxygen.
Hazardous Decomposition Products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.

SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Distillates (petroleum), hydrotreated light

ORAL (LD50): Acute: >5000 mg/kg [Rat].
DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

IRRITATION:
Primary dermal irritation studies (four hour exposure) in rabbits utilizing mineral spirits containing less than 2% aromatics resulted in slight to moderate skin irritation. In humans, mineral spirits have produced slight to moderate skin irritation particularly with evaporation from the skin is prevented. Animal studies have demonstrated that mineral spirits produced mild respiratory tract irritation at elevated concentrations. Also, sensory respiratory tract irritation was evident by reduced breathing rates in the test animals in certain studies.
SENSITIZATION:
In animal studies utilizing mineral spirits containing up to 18%, aromatics skin sensitization is not evident.
REPEAT DOSE/TARGET ORGAN TOXICITY:
The most common effects observed in repeated dose animal studies with mineral spirits are kidney changes that are consistent with an alpha 2u-globulin- mediated process that is not regarded as relevant to humans. The kidney damage occurred only in male rats and appeared to involve both the tubules and glomeruli. Certain studies have reported effects in the liver as well as hematological or urine chemistry changes. In general, these effects have not to been shown to be dose-related.
NERVOUS SYSTEM EFFECTS:
In animal studies utilizing mineral spirits containing up to 22% aromatics indicated that the acute central nervous system effects are reversible. Based on existing animal studies, the potential for persistent effects is not clear. In certain repeated dose animal studies have changes were reported in behavior, neurochemistry and sensory evoked potentials which may be irreversible. Repeated exposure to elevated concentrations of hydrocarbon solvents can produce a variety of transient CNS effects (e.g., dizziness, headache, narcosis, etc).
REPRODUCTIVE/DEVELOPMENTAL TOXICITY:
There were no treatment-related effects on pregnancy rate, mortality or gross post mortem observations in animal studies utilizing mineral spirits containing less than 2% aromatics.
GENOTOXICITY:
In vivo and *in vitro* studies on mineral spirits containing up to 22 % aromatics indicate that these products are not genotoxic.
CARCINOGENICITY:
The National Toxicology Program (NTP) conducted two-year carcinogenicity studies in rats and mice with Stoddard Solvent IIC (less than 2% aromatics). The studies indicated that there was some evidence of carcinogenic activity in male rats (adrenal medulla neoplasms and renal tubule adenoma) but no evidence of carcinogenic activity in female rats. Further, there was equivocal evidence of carcinogenic activity in female mice (hepatocellular adenoma) but no evidence of carcinogenic activity in male mice. A low carcinogenic potential is suggested by a lack of genotoxic potential identified in *in vivo* and *in vitro* genetic toxicity tests (with and without metabolic activation).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity This mixture contains components that are potentially toxic to freshwater and saltwater ecosystems.

Environmental Fate This product will normally float on water. Components will evaporate rapidly. This material may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. The octanol-water partition coefficient (log Kow) for this product is expected to be in the range of 2.1 to 5.

SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Maximize material recovery for reuse or recycling. Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specfic disposal issues.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status A U.S. Department of Transportation (DOT) regulated material.

Proper Shipping Name UN1268, Petroleum Distillates, n.o.s. (Naphtha Solvent), 3, PG III

Hazard Class 3

Packing Group III

UN/NA Number UN 1268

Reportable Quantity A Reportable Quantity (RQ) has not been established for this material.

Placard(s)

Emergency Response Guide No. 128

MARPOL III Status Not a DOT "Marine Pollutant" *per* 49 CFR 171.8.

SECTION 15. REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 Emergency Planning and Notification The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 311/312 Hazard Identification The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:

fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

SARA 313 Toxic Chemical Notification and Release Reporting This product contains the following components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No components were identified.

CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.
Clean Water Act (CWA)	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
California Proposition 65	This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Toluene: <0.01% Ethylbenzene: <0.002% Naphthalene: <0.001% Benzene: <0.0001%
New Jersey Right-to-Know Label	For New Jersey R-T-K labeling requirements, refer to components listed in Section 2.
Additional Remarks	Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains "Petroleum Distillates" which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Petroleum Distillates! Harmful or fatal if swallowed! Call Physician Immediately. KEEP OUT OF REACH OF CHILDREN!**

SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number 6.0

Revision Date 9/9/2008

ABBREVIATIONS

AP: Approximately EQ: Equal >: Greater Than <: Less Than

NA: Not Applicable ND: No Data NE: Not Established

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety and Health

NPCA: National Paint and Coating Manufacturers Association

EPA: US Environmental Protection Agency

HMIS: Hazardous Materials Information System

OSHA: Occupational Safety and Health Administration

NTP: National Toxicology Program

NFPA: National Fire Protection Association

DISCLAIMER OF LIABILITY

B

CANS - USED IN SHELLING

#676 SPRAY ADHESIVE (5081)

Material Safety Data Sheet

Quick Identifier (In Plant Common Name)

Manufacturer's Name & Address	**RUSSELL PRODUCTS,INC** 17989 Commerce Drive Bristol Indiana 46507
Emergency Telephone No.	(770) 433-0210 M – F(8am -5pm) (800) 255-3924(24 Hr Emergency)

HMIS Symbol:

Health	**1**
Flammability	**4**
Reactivity	**0**

HMIS		NFPA
Minimal	0	Insignificant
Slight	1	Slight
Moderate	2	Moderate
Serious	3	High
Severe	4	Extreme

NFPA Symbol:

Date Prepared: January 19, 2009 **Prepared By:** **Kevin May** **Supercedes:**

SECTION 1 - IDENTITY

Common Name: (used on label) (Trade name & Synonyms) **#676 SPRAY ADHESIVE (5081)**

Chemical Name Mixture packaged in pressurized aerosol spray can.

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s)	CAS No.	OSHA PEL	ACGIH TLV	Other Limits
2-Propanone	67-64-1	1000 ppm	500 ppm	750 ppm STEL
Rosin Ester	8050-26-8	Not Est.	Not Est.	
*Hexane	110-54-3	50 ppm	50 ppm	
Petroleum Distillates	64742-89-8	500 ppm	300 ppm	
Propane	74-98-6	Unknown	1000 ppm	
Butane	106-97-8	Unknown	800 ppm	

*Section 313 Supplier Notification - Indicates hazardous ingredients which are toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	>100°F (.50°C)	**Specific Gravity (H_20=1)**	0.600 – 0.700g/ml	**Vapor Pressure (Propellant)**	Not Est.
% - VOC	69.2%	**Evaporation Rate (BuAc=1)**	>1.00	**pH**	N/A
Solubility In Water	Insoluble	**Appearance and Odor**	White liquid with solvent odor		

SECTION 4 - FIRE & EXPLOSION DATA

Flammability per Flame Projection Test Method	**EXTREMELY FLAMMABLE**	**Flammable Limits in Air (Propellants)**	**Lower** N/A	**Upper** N/A	**Extinguisher Media**	Foam, Dry Chemical (B-C), CO_2

Special Fire Fighting Procedures Keep containers cool using water spray. Use proper equipment to protect personnel from bursting containers.

Unusual Fire and Explosion Hazards Contents under pressure. Do not expose to temperatures exceeding 120° F as containers may vent, rupture or burst.

SECTION 5 - PHYSICAL HAZARDS

Stability	Unstable ☐ Stable ■	**Conditions to Avoid**	Open Flames; Temp. > 120°F.	**Hazardous Polymerization**	May Occur ☐ Will not Occur ■	**Conditions to Avoid**	None

Incompatibility (Materials to Avoid) Acids, Strong oxidizers

Hazardous Decomposition Products CO, CO_2, Various Hydrocarbons

SECTION 6 - HEALTH HAZARDS

Routes of Entry	Inhalation: YES	Eyes / Skin: YES	Ingestion: UNLIKELY
Signs and Symptoms of Exposure (Acute & Chronic)	Inhalation	High concentrations of vapors may irritate nose and throat and cause symptoms of intoxication such as dizziness, nausea, headache, or indigestion.	
	Eye Contact	Direct spray or vapors will cause irritation. Symptoms include stinging, tearing, redness, and swelling of the eyes.	
	Skin Contact	Product may cause mild irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, drying ad cracking of skin, and skin burns.	
	Ingestion	Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This can result in lung inflammation and other lung injury.	

Medical Conditions Generally Aggravated by Exposure None Known

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes ☐ No ■	I.A.R.C. Monographs	Yes ☐ No ■	OSHA	Yes ☐ No ■

Emergency and First Aid Procedures

1. Inhalation	Remove victim to fresh air. Apply artificial respiration if needed. Get medical attention.
2. Eyes	Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
3. Skin	Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation persists.
4. Ingestion	DO NOT INDUCE VOMITING unless directed by a physician or poison control center. Get medical attention immediately.

SECTION 7 – SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) Use respirator only as a last resort to control exposure.

Ventilation	Local Exhaust	Maintain adequate ventilation.	Mechanical (General)	N/A	Special	N/A	Other	N/A

Protective Gloves Chemical Resistant Gloves **Eye Protection** Safety Glasses or Goggles

Other Protective Clothing or Equipment Wash hands after use.

SECTION 8 – SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken Handling and Storage	Use with adequate ventilation. Keep out of reach of children. Do not store at temperatures above 120°F. Do not puncture or incinerate containers. Store in accordance with **NFPA 30B for Level 3 Aerosol**
Other Precautions	Read label precautions carefully. Follow label directions to avoid injury.
Steps to be Taken in Case Material is Released or Spilled	Absorb spill with inert material then place in a chemical waste container. Dispose of spill material in accordance with local, state or federal regulations.
Waste Disposal Methods	Dispose of in accordance with local, state, and federal regulations.
Transportation Info	**DOT CLASSIFICATION:** HAZARDOUS **PROPER SHIPPING NAME:** CONSUMER COMMODITY ORM-D **UN NUMBER:** UN 1950 **HAZARD CLASS:** 2.1 **PACKING GROUP:** N/A

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.

(B) RED GLUE 5GAL PAIL

BENDER'S WHOLESALE DIST., INC.
2911 MOOSE TRAIL - P.O.BOX 1407
ELKHART, INDIANA 46515

M A T E R I A L S A F E T Y D A T A S H E E T

PHONE#: (574) 264-4409 24-HOUR D.O.T. PHONE#: (800) 424-9300
TRADE NAME: BENDER'S 630 LD CONTACT CEMENT (BULK)
BENDER I.D. NUMBERS: HP0G630 HP0H630 HP0L630

DOCUMENT NUMBER: A000630B DATE OF ISSUE: 08/01/06

1. HAZARDOUS INGREDIENTS

		C.A.S. NO.	PERCENT	EXPOSURE LIMITS	CODES
Perchloroethylene	(1)	127-18-4	< 10.00	WA =	2 *
				ACC = 200 ppm	2
				ACM = 300 ppm	2
				MAX. DUR. = 5m max peak any 3h	2
				25.000ppm	1
Toluene	(1)	108-88-3	< 10.00	WA =	2 *
				ACC = 300 ppm	2
				ACM = 500 ppm	2
				MAX. DUR. = 10 min max peak	2
				50.000ppm	1
					1 S
Triclene		79-01-6	< 15.00	WA =	2 *
				ACC = 200 ppm	2
				ACM = 300 ppm	2
				MAX. DUR. = 5m max peak any 2h	2
				50.000ppm	1
Dichloromethane	(1)	75-09-2	< 65.0	25.000ppm	2 *
				50.000ppm	1

1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

BOILING POINT: 164-194 F.
VAPOR PRESSURE: 100mm @ 20 C.
VAPOR DENSITY (AIR=1): 4.5
APPEARANCE AND ODOR: Red liquid, solvent odor
SOLUBILITY IN WATER: Negligible
V.O.C.: 1.758 LBS./GAL.
VISCOSITY: 200 - 300 cps
pH: ND
EVAPORATION RATE:(butyl Acetate = 1) 6.0
PERCENT VOLATILE: 77.0
SPECIFIC GRAVITY: 1.30
HMIS CODES: Health: 2 Flammability: 1 Equipment: C Reactivity: 0

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

FLAMMABLE LIMITS: LEL: 6.00 UEL: 15.00

D.O.T. CATEGORY: UN 2810 Toxic, Liquids, Organic, N.O.S.

EXTINGUISHING MEDIA:
Water, carbon dioxide, dry chemical or foam.

3. FIRE AND EXPLOSION HAZARD DATA CONTINUED

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material. Water spray may be ineffective. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable. Temperatures above 120 degrees farenheight may cause bursting of aerosol cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See section four, Conditions to Avoid and Hazardous Decomposition Products. Overheated, closed containers adjacent to fire could explode due to pressure buildup.

4. REACTIVITY DATA

STABILITY:
Stable.

INCOMPATABILITY (Materials to avoid):
Avoid contact with water, alcohols and amines.

HAZARDOUS POLYMERIZATION:
May not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide, hydrogen chloride and possible trace amounts of chlorine and phosgene.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Remove all sources of ignition immediately. Observe precautions in all sections. Collect spilled material with absorbent material. Clean up residue and place in metal container (D.O.T. approved if it is to be shipped).

RECOMMENDED DISPOSAL:
Commercial incineration with destruction and removal efficiency greater than 99.99% or reclamation is preferable. Otherwise, dispose of in accordance with local, state and current federal EPA regulations. U.S. EPA Hazardous Waste Number D001 (Ignitable).

ENVIRONMENTAL DATA:
ND

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with plenty of water for at least 15 minutes and call a physician.

6. SUGGESTED FIRST AID CONTINUED

SKIN CONTACT:

Wash thouroughly with soap and water.

INHALATION:

Move affected person to fresh air at once. Restore or support breathing as necessary. If breathing difficulties persist, call a physician.

IF SWALLOWED:

Do not induce vomiting. Give victim 2 glasses of milk or water to drink and call physician immediately. If spontaneously vomiting should occur, lower the victim's head between the knees to prevent aspiration into the lungs.
Do not give anything by mouth to an unconcious or convulsing person. Consult a physician immediately.

7. PRECAUTIONARY INFORMATION

Use only in areas adequately ventilated with enough air movement to remove vapors and prevent vapor buildup. Avoid prolonged breathing of vapor. Avoid breathing overspray (airborne adhesive particles) during the spray application. Avoid contact with eyes and skin. Avoid vapor contact with open flames, welding arcs or other high temperature sources which can cause vapor decomposition. Do not store above 120 degrees F.
NOTE: Vapors from this product can cause corrosive effects on ducts in work areas.
PROTECTIVE EQUIPMENT: Wear safety goggles if spray mist might get into eyes. Impervious gloves (chemical resistant neoprene) are suggested to prevent skin contact. Use an operating spray booth if at all possible. If not, provide other local exhaust ventilation to prevent vapor buildup. If adequate ventilation can not be maintained, a self-contained breathing apparratus best suited to the needs of your application should be used.
CAUTION: All material hoses should be nylon or PVA lined. Packings and glands in contact with the product should be made of teflon. Chlorinated solvents in the presence of moisture or water can cause corrosion of aluminum. Expolsion could occur if used with spraying equipment made from aluminum. Stainless steel is recommended for all metal parts in contact with the product.

8. HEALTH HAZARD DATA

EYE CONTACT:

May cause irritation to eyes.

SKIN CONTACT:

May defat skin causing dryness, cracking and irritation possibly leading to dermatitis.

INHALATION:

Inhalation of solvent vapors at concentrations which exceed the established

8. HEALTH HAZARD DATA CONTINUED

exposure limits may cause respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure include dizziness, nausea and headache. Gross acute overexposure can result in unconciousness and even death. Continued or chronic overexposure may cause mild liver and kidney damage and may adversely affect heart rhythm.

IF SWALLOWED:

Swallowing small amounts could cause irritation of the digestive system. Swallowing large amounts may cause nausea, vomiting, burns, lowered blood pressure, heart rhythm disturbances and mild liver and kidney damage.

HEALTH DATA:

Perchloroethylene has been found to be carcinogenic in experimental animals at relatively high dosages, by route(s) of administration, at site(s), of histologic type(s) or by mechanism(s) that are not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to to be carcinogenic in humans except under uncommon or unlikely routes or levels of exposure as determined by the ACGIH.

Deliberate inhalation of concentrated toluene vapors may cause brain disorders, lung damage and death. Animal studies have shown that inhalation of high levels of toluene produced cardiac sensitation. Such sensitation may cause fatal changes in heart rhythms. Rats exposed to 1400 ppm or 1200 ppm of toluene for 14 hours per day for 4 to 5 weeks (respectively) exhibited high frequency hearing defects. There is no evidence that industrially accepted levels of toluene vapors (E.G. the TLV) have produced cardiac effects in humans.

Triclene is not suspected to be a human carcinogen on the basis of properly conducted epidemiological studies in humans by the ACGIH. These studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dosages, and adequate statistical power to conclude that the exposure to Triclene does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data.
Triclene had been classified to be an experimental carcinogen and teratogen. It is considered to be mildly toxic to humans by ingestion and inhalation. Experimental reproductive effects.
Excessive overexposure to Dichloromethane may cause central nervous system, liver or kidney defects. Dichloromethane has been shown to increase the rate of spontaneously occuring malignant tumors in one strain of laboratory mouse and benin tumors in laboratory rats. Other animal studies, as well as several human epidemiology studies, failed to show tumorigenic response relatable to dichloromethane. Dichloromethane is not believed to pose a measurable carciogenic risk to man when handled as recommended. Birth defects are unlikely. Exposures having no effect on the mother should have no effect on the fetus. Did not cause birth defects in other animals; other effects seen in the fetus only at doses which caused toxic effects in the mother. In animal studies has been shown not to interfere with reproduction. Negative or equivocal results have been obtained using mammilian cells or animals. This is consistent with the lack of interaction with DNA in rats and hamsters. Although results of Ames bacterial tests have generally been positive, overall the data suggest

8. HEALTH HAZARD DATA CONTINUED

that genotoxic potential does not appear to be a significant factor in the toxicity of dichloromethane. Excessive overexposure may cause carboxhemoglobinemia, thereby imparing the blood's ability to transprt oxygen.

ADDITIONAL HEALTH DATA:

ABBREVIATIONS:

1 - ACGIH Threshhold Limit Values
2 - Federal OSHA Permissible Exposure Limit
3 - Chemical Manufacturer Recommended Guidlines
N - None Established
ACC - Acceptable Ceiling Concentration
ACM - Maximum Acceptable Ceiling Concentration
C - Centigrade
F - Fahrenheit
* - See "Health Data"
# - See "Additional Health Data"
S - Potential Critical Absorption by cutaneous route
Q - Potential Critical Entrance by Respiration

H - Hours
MAX. DUR. - Maximum Duration
Min. - Minutes
mg/m3 - Miligrams per square meter
NA - Not Applicable
ND - Not Determined
ppm - Parts Per Million
P.S.I. - Pounds per Square Inch
WA - Weighted Average per 8 hour shift
V.O.C. - Volatile Organic Compound
R - Values for Inhalation only
RCRA - Resource Conservation & Recovery Act

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves the use of the product in combination with any other product or any other process is the responsibility of the user.

Spray Cans
USED IN UPHOLSTERY

BENDER'S WHOLESALE DIST., INC.
2911 MOOSE TRAIL - P.O.BOX 1407
ELKHART, INDIANA 46515

M A T E R I A L S A F E T Y D A T A S H E E T

PHONE#: (574) 264-4409 24-HOUR D.O.T. PHONE#: (800) 424-9300
TRADE NAME: BENDER'S 605 FLEXIBLE FOAM ADHESIVE, AEROSOL 24 OZ.
BENDER I.D. NUMBERS: HP0E605

DOCUMENT NUMBER: A000605A DATE OF ISSUE: 08/20/10

1. HAZARDOUS INGREDIENTS

	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	CODES
Liquified petroleum gas	68476-86-8	< 30.0	1,000.000ppm 1,000.000ppm	2 1
Acetone	(1) 67-64-1	< 15.0	1,000.000ppm 500.000ppm	2 * 1
Dimethyl ether	115-10-6	< 20.0	1,000.000ppm ND	2 1

(1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

BOILING POINT: -43 - 134 F
VAPOR PRESSURE: 100mm @ 15.8 F.
VAPOR DENSITY (AIR=1): Heavier than air
APPEARANCE AND ODOR: Amber color, solvent odor
SOLUBILITY IN WATER: Negligible
V.O.C.: ND
VISCOSITY: 250
pH: 0.0%
EVAPORATION RATE: Faster > Butyl Acetate
PERCENT VOLATILE:
SPECIFIC GRAVITY: 0.9
HMIS CODES: Health: 2 Flammability: 4 Equipment: B Reactivity: 0

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: ND

FLAMMABLE LIMITS: LEL: 1.80 UEL: 18.00

D.O.T. CATEGORY: -AEROADH Consumer Commodity ORM-D
Adhesives flash point lower than 100 F., aerosolized
X

EXTINGUISHING MEDIA:
Foam, CO2, Alcohol Foam, Dry Chemical or water fog.

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See section four, Conditions to Avoid and Hazardous Decomposition Products.

3. FIRE AND EXPLOSION HAZARD DATA CONTINUED

Overheated, closed containers adjacent to fire could explode due to pressure buildup.

4. REACTIVITY DATA

STABILITY:
Stable.

INCOMPATABILITY (Materials to avoid):
Avoid strong acids, alkalis, oxidizers and amines.

HAZARDOUS POLYMERIZATION:
May not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide, nitrogen oxides and smoke particles.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Remove all sources of ignition immediately. Observe precautions in all sections. Collect spilled material with absorbent material. Clean up residue and place in metal container (D.O.T. approved if it is to be shipped).

RECOMMENDED DISPOSAL:
Commercial incineration with destruction and removal efficiency greater than 99.99% or reclamation is preferable. Otherwise, dispose of in accordance with local, state and current federal EPA regulations. U.S. EPA Hazardous Waste Number D001 (Ignitable).

ENVIRONMENTAL DATA:
ND

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with plenty of water for at least 15 minutes. If symptoms or irritation occur, call a physician.

SKIN CONTACT:
Wash with soap and plenty of water. Remove contaminated clothing. If symptoms or irritations occur, call a physician.

INHALATION:
Remove to fresh air. If breathing is difficult give oxygen. If not breathing,

6. SUGGESTED FIRST AID CONTINUED

give artificial respiration. Get immediate medical attention. Keep victim warm.

IF SWALLOWED:

Do not induce vomiting. Give victim 2 glasses of milk or water to drink and call physician immediately. If spontaneously vomiting should occur, lower the victim's head between the knees to prevent aspiration into the lungs. Do not give anything by mouth to an unconcious or convulsing person. Consult a physician immediately.

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and flame. Ground containers when discharging. Use only in areas adequately ventilated with enough air movement to remove vapors and prevent vapor buildup. The vapors released by this product can be easily ignited. Prevent contact with eyes and skin. Avoid prolonged breathing of vapor vapors. Keep container closed when not in use. Keep out of the reach of children.
NOTE: Utilize personal protection equipment when handling this product, i.e. impervious gloves and chemical goggles or safety glasses, whichever is most appropriate for the work situation. In confined areas, local exhaust should be used. If ventilation is insufficient a self-contained breathing apparatus should be used.
New Jersey Right to Know:
No non-hazardous materials are among the top five ingredients.
Pennsylvania Right to Know:
No non-hazardous ingredients are present at greater than 3%.
California Proposition 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

Toluene	108-88-3
Benzene	71-43-2

8. HEALTH HAZARD DATA

EYE CONTACT:

Liquid and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

SKIN CONTACT:

Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and result in dermatitis.

INHALATION:

Inhalation of solvent vapors at concentrations which exceed the established exposure limits may cause respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure include dizziness, nausea and

8. HEALTH HAZARD DATA CONTINUED

headache. Gross acute overexposure can result in unconciousness and even death. Continued or chronic overexposure may cause mild liver and kidney damage and may adversely affect heart rhythm.

IF SWALLOWED:

This material may be harmful or fatal if swallowed. If a corrosive products, ma y cause severe and permanent damage to mouth, throat and stomach.

HEALTH DATA:

When acetone was absorbed systematically, it caused cataracts in laboratory animals. 10 to 20 ml has been taken orally without ill effects.
This chemical is subject to the reporting requiements of section 313 of SARA Title III.

ADDITIONAL HEALTH DATA:

ABBREVIATIONS:

1 - ACGIH Threshhold Limit Values
2 - Federal OSHA Permissible Exposure Limit
3 - Chemical Manufacturer Recommended Guidlines
N - None Established
ACC - Acceptable Ceiling Concentration
ACM - Maximum Acceptable Ceiling Concentration
C - Centigrade
F - Fahrenheit
* - See "Health Data"
# - See "Additional Health Data"
S - Potential Critical Absorption by cutaneous route
Q - Potential Critical Entrance by Respiration

H - Hours
MAX. DUR. - Maximum Duration
Min. - Minutes
mg/m3 - Miligrams per square meter
NA - Not Applicable
ND - Not Determined
ppm - Parts Per Million
P.S.I. - Pounds per Square Inch
WA - Weighted Average per 8 hour shift
V.O.C. - Volatile Organic Compound
R - Values for Inhalation only
RCRA - Resource Conservation & Recovery Act

B.

5gal pail (not used - Have partial pail in UPH)

BENDER'S WHOLESALE DIST., INC.
2911 MOOSE TRAIL - P.O.BOX 1407
ELKHART, INDIANA 46515

M A T E R I A L S A F E T Y D A T A S H E E T

PHONE#: (574) 264-4409 24-HOUR D.O.T. PHONE#: (800) 424-9300
TRADE NAME: BENDER'S 617 SPRAYABLE CONTACT CEMENT (BULK)
BENDER I.D. NUMBERS: HP0G617 HP0H617 HP0L617

DOCUMENT NUMBER: A000617B DATE OF ISSUE: 08/20/10

1. HAZARDOUS INGREDIENTS

	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	CODES
Toluene	(1) 108-88-3	< 20.00	WA =	2 *
			ACC = 300 ppm	2
			ACM = 500 ppm	2
			MAX. DUR. = 10 min max peak	2
			50.000ppm	1
				1 S
Acetone	(1) 67-64-1	< 25.0	1,000.000ppm	2 *
			500.000ppm	1
Hexane	110-54-3	< 45.0	500.000ppm	2 *
			50.000ppm	1

(1) This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

2. PHYSICAL DATA

BOILING POINT: 133 F.(ACETONE) VISCOSITY: 250 - 350 cps
VAPOR PRESSURE: 100mm @ 15.8 F. pH: ND
VAPOR DENSITY (AIR=1): 1 EVAPORATION RATE:2+ (Ether = 1)
APPEARANCE AND ODOR: Amber liquid, solvent odor PERCENT VOLATILE: 83.0
SOLUBILITY IN WATER: Very slight SPECIFIC GRAVITY: 0.795
V.O.C.: 5.76 LBS./GAL.
HMIS CODES: Health: 2 Flammability: 3 Equipment: C Reactivity: 0

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: - 20 F. (closed cup)

FLAMMABLE LIMITS: LEL: 1.00 UEL: 12.80

D.O.T. CATEGORY: UN 1133 Adhesives, containing a flammable liquid
X

EXTINGUISHING MEDIA:
Use carbon dioxide, dry chemical or foam.

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when

3. FIRE AND EXPLOSION HAZARD DATA CONTINUED

fighting fires involving this material. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Extremely flammable. Overheated, closed containers adjacent to fire could explode due to pressure buildup.

4. REACTIVITY DATA

STABILITY:
Stable.

INCOMPATABILITY (Materials to avoid):
Oxidizers.

HAZARDOUS POLYMERIZATION:
May not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide, carbon monoxide, hydrogen chloride and smoke particles.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Remove all sources of ignition. Collect spilled material observing all precautions in section seven. Place in a closed metal container for disposal or salvage.

RECOMMENDED DISPOSAL:
Commercial incineration with destruction and removal efficiency greater than 99.99% or reclamation is preferable. Otherwise, dispose of in accordance with local, state and current federal EPA regulations. U.S. EPA Hazardous Waste Number D001 (Ignitable).

ENVIRONMENTAL DATA:
ND

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with plenty of water for at least 15 minutes and call a physician.

SKIN CONTACT:
Wash thouroughly with soap and water.

6. SUGGESTED FIRST AID CONTINUED

INHALATION:

Move affected person to fresh air at once. Restore or support breathing as necessary. If breathing difficulties persist, call a physician.

IF SWALLOWED:

Do not induce vomiting. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Call a physician immediately.

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and flame. Ground containers when discharging. Use only in areas adequately ventilated with enough air movement to remove vapors and prevent vapor buildup. The vapors released by this product can be easily ignited. Prevent contact with eyes and skin. Avoid prolonged breathing of vapor vapors. Keep container closed when not in use. Keep out of the reach of children.
NOTE: Utilize personal protection equipment when handling this product, i.e. impervious gloves and chemical goggles or safety glasses, whichever is most appropriate for the work situation. In confined areas, local exhaust should be used. If ventilation is insufficient a self-contained breathing apparatus should be used.

8. HEALTH HAZARD DATA

EYE CONTACT:

Liquid irritating to eyes. Can cause tearing, redness and blurred vision.

SKIN CONTACT:

Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and result in dermatitis.

INHALATION:

Inhalation of vapors at concentrations exceeding the established exposure limits may cause respiratory system irritation. Symptoms of overexposure include drowsiness, light headedness, dizziness, nausea and headache. Gross overexposure, such as would occur with deliberate inhalation of concentrated vapors, may cause nervous system damage as well as liver damage with blood effects.

IF SWALLOWED:

May be harmful if swallowed.

HEALTH DATA:

Deliberate inhalation of concentrated toluene vapors may cause brain disorders, lung damage and death. Animal studies have shown that inhalation of high levels of toluene produced cardiac sensitation. Such sensitation may cause

8. HEALTH HAZARD DATA CONTINUED

fatal changes in heart rhythms. Rats exposed to 1400 ppm or 1200 ppm of toluene for 14 hours per day for 4 to 5 weeks (respectively) exhibited high frequency hearing defects. There is no evidence that industrially accepted levels of toluene vapors (E.G. the TLV) have produced cardiac effects in humans.
When acetone was absorbed systematically, it caused cataracts in laboratory animals. 10 to 20 ml has been taken orally without ill effects.
This chemical is subject to the reporting requiements of section 313 of SARA Title III.

The presence (up to 50%) of N-Hexane in the solvent mixture for hexane represents a distinct hazard of producing peripheral polyneuropathy, a progressive disorder of the nervous system, which with sufficient high exposure has the potential of becoming irreversible. This disorder has been observed in individuals exposed repeatedly to high vapor concentrations (1000-1500 ppm) of N-Hexane over a period of several months. Exposure to this product should be controlled to keep the maximum level below 100 ppm which will result in N-Hexane exposure of 50 ppm or less, as recommended by ACGIH (1985-86).

ADDITIONAL HEALTH DATA:

ABBREVIATIONS:

1 - ACGIH Threshhold Limit Values
2 - Federal OSHA Permissible Exposure Limit
3 - Chemical Manufacturer Recommended Guidlines
N - None Established
ACC - Acceptable Ceiling Concentration
ACM - Maximum Acceptable Ceiling Concentration
C - Centigrade
F - Fahrenheit
* - See "Health Data"
# - See "Additional Health Data"
S - Potential Critical Absorption by cutaneous route
Q - Potential Critical Entrance by Respiration

H - Hours
MAX. DUR. - Maximum Duration
Min. - Minutes
mg/m3 - Miligrams per square meter
NA - Not Applicable
ND - Not Determined
ppm - Parts Per Million
P.S.I. - Pounds per Square Inch
WA - Weighted Average per 8 hour shift
V.O.C. - Volatile Organic Compound
R - Values for Inhalation only
RCRA - Resource Conservation & Recovery Act

Russell Products Inc.

MSDS for SEB-100-5/ SEB-100-55

5 gal pail

Acetone

Approval Date: August 5, 2013
Revision Number: 7
MSDS Number: INEOS Phenol 02 **Page:** 1 of 11

1. Product and Company Identification

Product Name: Acetone
Synonyms: 2-propanone

2. Composition/Information on Ingredients

Hazardous Ingredient(s)	CAS Number	% (Wt./Wt.)
Acetone	000067-64-1	100

See Section 8 for Exposure Guidelines

3. Hazards Identification

EMERGENCY OVERVIEW:
Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. May cause eye irritation.

POTENTIAL HEALTH EFFECTS

Eye Contact:
Irritating

Skin Contact:
Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis(rash).

Inhalation: Possibly irritating. Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, headache, possible unconsciousness, and even death.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

General: Ingestion of a toxic dose of acetone can cause gastroentric irritation, narcosis, and injury to the kidneys and liver.

4. First Aid Measures

FIRST AID

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Skin Contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention if symptoms occur. Wash clothing before reuse.

Inhalation: Rescuers should put on appropriate protective gear. Remove from area of exposure. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Keep victim warm. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures:

Flash Point: -4°F
Flash Point Method: Pensky–Martens C.C.
Lower Explosive Limit: 2.5 vol %
Upper Explosive Limit: 13.0 vol %

OSHA Flammability Classification: Flammable Liquid
Autoignition Temperature: 465°C

Other Flammable Properties:
Extremely flammable. Material will readily ignite at room temperature. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

Extinguishing Media:
Use water spray or fog, alcohol resistant foam, dry chemical, or CO_2.

Fire Fighting Procedures:
Evacuate area and fight fire from a safe distance. Stay upwind; keep out of low areas. As in any fire, wear self-contained positive-pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. Accidental Release Measures

Steps to be taken in case material is released or spilled:
Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Shut off ignition sources; no flares, smoking, or flames in hazard area.

Vapor can be controlled using a water fog. Absorb spill with inert material, then place in chemical waste container. LARGE SPILLS: Shut off leak if safe to do so. Obey relevant local, state, and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater, or soil.

7. Handling and Storage

Handling:

Keep away from heat. Keep away from sparks, flames, and other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage:

Keep away from heat. Keep away from sparks, flame, and other sources of ignition. Store in a cool, dry place. Keep container closed when not in use. Store in explosion-proof environment.

8. Exposure Controls/Personal Protection

Exposure Limits

	Value	Limit	Reference
Acetone	1000 ppm	TWA	OSHA
	500 ppm	TWA	ACGIH
	750 ppm	STEL (c)	ACGIH

Other exposure limit information:
The IDLH is 2500 ppm.

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne exposure. Use explosion-proof ventilation equipment.

Respiratory Protection:
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Eye Protection:
Use chemical splash goggles.

Skin Protection:
Use impermeable gloves.

Other Protective Equipment:
A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. Physical and Chemical Properties

Vapor Pressure	:	828 mbar @ 50°C
Vapor Density (Air=1)	:	Is heavier than air
Specific Gravity	:	0.790
Boiling Point	:	56°C
Freezing Point	:	-95°C
pH	:	5.0 – 6.0
Viscosity	:	0.32 mPa s @ 20°C

Evaporation Rate : Not available

Other Properties:
Colorless. Liquid. Characteristic odor. Sweet odor. Solubility in water: Complete (miscible).

10. Stability and Reactivity

Stability:
This product is stable under normal storage conditions.

Hazardous Polymerization:
Will not occur under normal conditions.

Conditions to Avoid:
Avoid high temperatures and sources of ignition.

Incompatibility with Other Materials:
Acetone reacts violently with chloroform in the presence of bases.

Hazardous Decomposition Products:
None.

11. Toxicological Information

Chemical Name	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Acetone	5800 mg/kg	20,000 mg/kg	120 mg/l

Other Toxicological Information:
The ACGIH BEI for Acetone is 100 mg/l (Acetone in urine at the end of shift).

12. Ecological Information

TSCA:

This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following non-proprietary substances subject to export notification under Section 12 (b) of TSCA:

	CAS Number	
Acetone	000067-64-1	Reportable one-time

State Regulations

New Jersey:

This product contains the following non-hazardous components subject to disclosure under New Jersey Right-to-Know legislature:

None

Pennsylvania:

This product contains the following non-hazardous components subject to disclosure under Pennsylvania Right-to-Know legislation:

None

California (Proposition 65):

This product contains the following substances known to the State of California to cause cancer:

None

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

International Regulations

Summary of International Chemical Inventory Status:

5 Gal pail

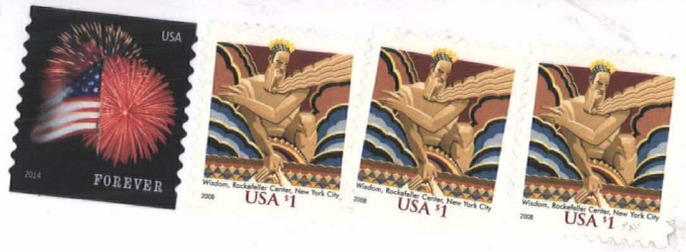
Canada	On inventory
Europe	On inventory
South Korea	On inventory
Australia	On inventory

16. Other Information

NFPA Ratings: Health – 1 Flammability – 3 Reactivity – 0
Ratings Key: 4 = Highest Hazard, 0 = Lowest Hazard, N = No rating for powders

Key to abbreviations used:

NA	Not Applicable
NAV	Not Available
NE	Not Established
NJTSR No.	New Jersey Trade Secret Registry Number
R	Registered Trademark of INEOS Phenol
TM	Trademark of INEOS Phenol



PHOENIX USA INC
2601 MARINA DRIVE
ELKHART, IN 46514
574-266-2020

Leslie Blake, Remedial Project Manager
U.S. Environmental Protection Agency – Region 5
Superfund Division (SR-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590